

Plastic Roller

Milled Type / Press-Fit Type

Plastic Roller – Milled Type

Plastic Roller – Press-Fit Type

Type		Material Body	Bearing
Straight	Double Flanged		
RORPOS	RORPOWF	Polyacetal	Steel
RORPHS	RORPHWF		Stainless Steel
RORPES	RORPEWF	UHMWPE	Steel
RORPJS	RORPJWF		Stainless Steel
RORPSS	—	Polypropylene	Steel
RORPQS	—		Stainless Steel
RORMCS	RORMCWF	MC Nylon	Steel

ⓘ Bearings are press-fit.

Milled Type

Straight Type

Double Flanged Type

Press-Fit Type

Straight Type

Bearing Type

ⓘ When L≤dx3, hole d is machined from the same direction.
 ⓘ When L>dx3, hole d is machined from both ends as shown below. There may be no relief in some cases.

ⓘ Core is press fit in plastic.

Milled Type, Straight

Part Number		L 1 mm Increment	Bearing	D	D ₁	d	B	(dh)
Type	No.							
RORPOS RORPHS RORPES RORPJS RORPSS RORPQS RORMCS	20	15-100	696ZZx2	20	15	6	5	10
	30	20-50	698ZZx2	30	19	8	6	15
	30-10		6900ZZx2	30	22	10	6	15
	30-12		6901ZZx2	30	24	12	6	18
	40		6900ZZx2	40	22	10	6	18
	40-12	6901ZZx2	40	24	12	6	18	
	40-15	6902ZZx2	40	28	15	7	24	
	40-20	6804ZZx2	40	32	20	7	24	
	50	6001ZZx2	50	28	12	8	24	
	60	6002ZZx2	60	32	15	9	28	
80	6002ZZx2	80	32	15	9	28		

Double Flanged Type

Part Number		1 mm Increment				Bearing	F	D ₁	d	B	(dh)	
Type	No.	D	L	E	G							
RORPOWF	RORPHWF	40	30-35	20-50	5-10	5-10	6900ZZx2	40	22	10	6	18
RORPEWF	RORPJWF	50	35-45	40-100	5-10	5-10	6001ZZx2	50	28	12	8	24
RORMCWF		60	40-55	40-100	5-20	5-20	6002ZZx2	60	32	15	9	28
		80	40-75	40-100	5-20	5-20	6002ZZx2	80	32	15	9	28

Features

- Polyacetal : Material which excels in mechanical strength.
- UHMWPE : Material excellent in abrasion resistance. Complies with Food Sanitation Act.
- Polypropylene : Material which excels in chemical resistance.
- MC Nylon : Material which excels in mechanical strength and wear resistance.

Press-Fit Type

Part Number		D	d _{in} (Specify Straight Type Only)	L Selection					Bearing Type								
Type	Bearing Type			d	D ₁ (in)	dh	B	Bearing									
Straight Type ROASP ROAAP	Bearing Type RORASP RORAAP	*20	8	15	20	25	30	40	50	—	—	—	—	—			
		25	8	10	12	*15	20	25	30	40	50	6	15	10	5	696ZZx2	
		30	8	10	12	15	*15	20	25	30	40	50	8	19	15	6	698ZZx2
		35	10	12	15	20	*20	25	30	40	50	10	22	18	6	6900ZZx2	
		40	10	12	15	20	*20	25	30	40	50	12	28	24	8	6001ZZx2	
		50	12	15	20	25	30	40	50	15	32	28	9	6002ZZx2			

* 20 is only applicable for Straight Type
 * marked L dim. are for the Straight type only.

Plastic Roller

Milled Type / Press-Fit Type, continued

Part Number Example

Milled: RORPOS60 - D60 - L75 - E10 - G10

Press-Fit: RORPOWF80 - D60 - L90 - E10 - G10

RORASP40 - 12 - 50

RORAAP30 - 40

No.	Available Types																												
	Milled, Straight																												
	Polyacetal								Ultra High Molecular Weight Polyethylene (UHMW)								Polypropylene								MC Nylon				
	RORPOS		RORPHS		RORPES		RORPJS		RORPSS		RORPQS		RORMCS																
	L15-25	L26-50	L51-75	L76-100	L15-25	L26-50	L51-75	L76-100	L15-25	L26-50	L51-75	L76-100	L15-25	L26-50	L51-75	L76-100	L15-25	L26-50	L51-75	L76-100	L15-25	L26-50	L51-75	L76-100	L15-25	L26-50	L51-75	L76-100	
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30-10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
30-12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
40-12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
40-15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
40-20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
50	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	*
60	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	*
80	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	*

No.	Available Types																			
	Milled, Double Flanged																			
	MC Nylon				Polyacetal								Ultra High Molecular Weight Polyethylene (UHMW)							
	RORMCWF				RORPOWF				RORPHWF				RORPEWF				RORPJWF			
	L20-25	L26-50	L51-75	L76-100	L20-25	L26-50	L51-75	L76-100	L20-25	L26-50	L51-75	L76-100	L20-25	L26-50	L51-75	L76-100	L20-25	L26-50	L51-75	L76-100
40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
50	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*
60	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*
80	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*	—	*	*	*

No.	Available Types							
	Press Fit Straight				Press Fit with Bearings			
	Polyacetal							
	ROASP		ROAAP		RORASP		RORAAP	
	L15-25	L30-50	L15-25	L30-50	L20-25	L30-50	L20-25	L30-50
20	*	*	*	*	*	*	*	*
25	*	*	*	*	*	*	*	*
30	*	*	*	*	*	*	*	*
35	*	*	*	*	*	*	*	*
40	*	*	*	*	*	*	*	*
50	*	*	*	*	*	*	*	*